

Mr. Larry Alexander
Marathon Oil Company
7889 West Lincoln Highway
Schererville, Indiana 46375

Re: Registered Construction and Operation Status,
089-12610-00461

Dear Mr. Alexander:

The application from Marathon Oil Company, received on August 16, 2000, has been reviewed. Based on the data submitted and the provisions in 326 IAC 2-5.1, it has been determined that the following a soil vapor extraction system, to be located at 7889 West Lincoln Highway, Schererville, Indiana, is classified as registered:

- (a) One (1) soil vapor extraction system which exhausts to one (1) stack designated as 2318-1 and consists of the following:
 - 1. One (1) air sparging blower;
 - 2. Eight (8) vapor extraction wells;
 - 3. One (1) air/water separator; and
 - 4. One (1) vacuum pump.

The following conditions shall be applicable:

- 1. Pursuant to 326 IAC 2-6 (Emission Reporting), the owner/operator of the source must annually submit an emission statement for the source. The annual statement must be received by April 15 of each year and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8)(Emission Statement Operating Year).
- 2. Pursuant to 326 IAC 5-1-2 (Opacity Limitations) except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following:
 - (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of 15 minutes (60 readings) in a 6-hour period as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor in a six (6) hour period.

This registration is the first air approval issued to this source. The source may operate according to 326 IAC 2-5.5.

An authorized individual shall provide an annual notice to the Office of Air Management that the source is in operation and in compliance with this registration pursuant to 326 IAC 2-5.1-2(f)(3). The annual notice shall be submitted to:

Compliance Data Section
Office of Air Management
100 North Senate Avenue
P.O. Box 6015
Indianapolis, IN 46206-6015

no later than March 1 of each year, with the annual notice being submitted in the format attached.

An application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Management (OAM) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

Sincerely,

Paul Dubenetzky, Chief
Permits Branch
Office of Air Management

NLJ

cc: File - Lake County
Lake County Health Department
Air Compliance - Rick Massoels
Northwest Regional Office
Permit Tracking - Janet Mobley
Technical Support and Modeling - Michele Boner
Compliance Data Section - Karen Nowak

Registration Annual Notification

This form should be used to comply with the notification requirements under 326 IAC 2-5.1-2(f)(3)

Company Name:	Marathon Oil Company
Address:	7889 West Lincoln Highway
City:	Schererville, Indiana 46375
Authorized individual:	Larry Alexander
Phone #:	219-322-0019
Registration #:	089-12610-00461

I hereby certify that Marathon Oil Company is still in operation and is in compliance with the requirements of Registration **089-12610-00461**.

Name (typed):
Title:
Signature:
Date:

Indiana Department of Environmental Management Office of Air Management

Technical Support Document (TSD) for a Registration

Source Background and Description

Source Name: Marathon Oil Company
Source Location: 7889 West Lincoln Highway, Schererville, Indiana 46375
County: Lake
SIC Code: 5541
Operation Permit No.: 089-12610-00461
Permit Reviewer: Nysa L. James

The Office of Air Management (OAM) has reviewed an application from Marathon Oil Company relating to the construction and operation of a soil vapor extraction system.

Emission Units and Pollution Control Equipment

The source consists of the following facilities/units:

- (a) One (1) soil vapor extraction system which exhausts to one (1) stack designated as 2318-1 and consists of the following:
1. One (1) air sparging blower;
 2. Eight (8) vapor extraction wells;
 3. One (1) air/water separator; and
 4. One (1) vacuum pump.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (°F)
2318-1	SVE	13	0.33	230	ambient

Recommendation

The staff recommends to the Commissioner that the construction and operation be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

A complete application for the purposes of this review was received on August 16, 2000.

Emission Calculations

The calculations submitted by the applicant have been verified and found to be accurate and correct. These calculations are provided in Appendix A of this document (two (2) pages).

Potential To Emit

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, the department, or the appropriate local air pollution control agency.”

Pollutant	Potential To Emit (tons/year)
PM	0.00
PM-10	0.00
SO ₂	0.00
VOC	16.7
CO	0.00
NO _x	0.00

HAP's	Potential To Emit (tons/year)
Benzene	0.2
Toluene	1.0
Hexane	3.3
Ethylbenzene	0.1
Xylene	0.5
MTBE	1.7
TOTAL	6.8

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of VOC is less than 25 tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination HAPs is less than twenty-five (25) tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.

Actual Emissions

No previous emission data has been received from the source.

County Attainment Status

The source is located in Lake County.

Pollutant	Status
PM-10	moderate
SO ₂	primary
Ozone	severe
CO	attainment
Lead	attainment

- (a) Lake County has been classified as attainment or unclassifiable for CO and Lead. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.
- (b) Volatile organic compounds (VOC) and oxides of nitrogen are precursors for the formation of ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to the ozone standards. Lake County has been designated as nonattainment for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.
- (c) Lake County has been classified as nonattainment for SO₂ and PM₁₀. Therefore, these emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.

Source Status

New Source PSD Definition (emissions after controls, based on 8,760 hours of operation per year at rated capacity and/ or as otherwise limited):

Pollutant	Emissions (ton/yr)
PM	0.00
PM10	0.00
SO ₂	0.00
VOC	16.7
CO	0.00
NO _x	0.00
Benzene	0.2
Toluene	1.0
Hexane	3.3
Ethylbenzene	0.1
Xylene	0.5
MTBE	1.7
Combination HAPs	6.8

- (a) This new source is **not** a major stationary source because no attainment pollutant is emitted at a rate of 250 tons per year or greater, no nonattainment pollutant is emitted at a rate of 100 tons per year or greater, VOC is not emitted at a rate less than 25 tons per year and it is not in one of the 28 listed source categories. Therefore, pursuant to 326 IAC 2-2 and 2-3, and 40 CFR 52.21, the PSD and Emission Offset requirements do not apply.

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This new source is not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

- (a) PM₁₀, SO₂, CO are less than 100 tons per year,
- (b) VOC is less than 25 tons per year,
- (c) a single hazardous air pollutant (HAP) is less than 10 tons per year, and
- (d) any combination of HAPs is less than 25 tons/year.

This is the first air approval issued to this source.

Federal Rule Applicability

- (a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this source.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR art 63) applicable to this source.

State Rule Applicability

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting), because it has the potential to emit more than ten (10) tons per year of VOC and is located in Lake County. Pursuant to this rule, the owner/operator of the source must annually submit an emission statement for the source. The annual statement must be received by April 15 of each year and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8)(Emission Statement Operating Year).

326 IAC 5-1 (Visible Emissions Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

326 IAC 6-3 (Process Operations) do not apply to the soil vapor extraction system because the system does not emit particulate matter.

326 IAC 8-1-6 (General reduction requirements for new facilities) does not apply because the potential to emit of VOC is less than 25 tons per year.

326 IAC 8-7 (Specific VOC Reduction Requirements for Lake, Porter, Clark and Floyd Counties) does not apply because the potential to emit of VOC is less than 25 tons per year.

No other 326 IAC 8 rules apply.

Conclusion

The construction and operation of this soil vapor extraction system shall be subject to the conditions of the attached proposed New Source Construction and Minor Source Operating Permit 089-12610-00461.